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ABSTRACT OF THE INVENTION

A method and article are disclosed wherein a substrate is provided with a photocatalytically-activated selfcleaning surface by forming a photocatalytically-activated self-5 cleaning coating on the substrate by spray pyrolysis chemical vapor deposition or magnetron sputter vacuum deposition. coating has a thickness of at least about 500 Angstroms to limit sodium-ion poisoning to a portion of the coating facing the substrate. Alternatively, a sodium ion diffusion barrier layer is deposited over the substrate prior to the deposition of the photocatalytically-activated self-cleaning coating to prevent sodium ion poisoning of the photocatalytically-activated selfcleaning coating. The substrate includes glass substrates, including glass sheet and continuous float glass ribbon.